

SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product Name: Savage 350 Insecticide
Company Name: Kenso Corporation (M) Sdn Bhd
Address: 49B, Apollo Drive, Rosedale, Auckland 063 NZ
Telephone Number: (09) 410 0861
Emergency Telephone Number: (24 Hours) 0800 Chemcall = 0800 243 622
Use: A systemic insecticide for the control of aphids in vegetable brassicas, lettuce transplants and thrips on onions and mealy bugs on non-bearing grapevines or vines destined for removal.

SECTION 2 – HAZARDS IDENTIFICATION

Hazard classification: 6.1D, 6.9B, 9.1A, 9.2A, 9.3A, 9.4A
Priority Identifier: TOXIC
ECOTOXIC
KEEP OUT OF REACH OF CHILDREN
Secondary Identifiers: 6.1D = Harmful if swallowed
6.9B = Danger of serious damage to health by prolonged exposure
9.1A = Very toxic to aquatic organisms
9.2A = Very toxic in the soil
9.3A = Very toxic to terrestrial vertebrates
9.4A = Very toxic to terrestrial invertebrate

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS number	Proportion
Imidacloprid 95%	138261-41-3	35% w/v
Inert ingredient	secret	to 100% w/v

SECTION 4 – FIRST AID MEASURES

Inhalation	Remove patient to fresh air. Lay down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.
Ingestion	Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting. For medical advice, contact the National Poisons Centre (0800 764 766). Seek medical assistance immediately.
Skin	Immediately flush body and clothes with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with soap and water. If a large area is affected seek medical assistance.
Eye	Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Seek medical assistance.

Advice to Doctor
Treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water fog, foam, carbon dioxide or dry chemical.

Hazards from Combustion Products: May emit toxic fumes of hydrogen chloride, hydrogen cyanide, carbon monoxide and nitrogen oxides if involved in fires or exposed to extreme heat.

Special Protective Equipment for fire fighters: Full protective clothing and self-contained breathing apparatus.

Specific Methods: Keep up wind. Do not allow washings to reach sewage, storm or effluent systems or waterways.

Specific Hazards: Considered low risk due to water content, however upon evaporation of water the product is combustible.

Hazchem Code: 2X

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spills & Disposal

Wear protective clothing. Clear area of unprotected personnel. Contain spill and absorb with sand, soil or absorbent granules. If spill does enter waterways contact the local regional authority pollution response unit. Collect in an appropriate sealable container for disposal in an approved landfill.

Personal Protection

For appropriate personal protective equipment (PPE), refer Section 8.

Environmental Precautions

Prevent from entering drains, waterways or sewers.

SECTION 7 – HANDLING AND STORAGE

Precautions for Safe Handling

Avoid skin and eye contact and inhalation of spray mist.

APPROVED HANDLER: This product must be under the control of an approved handler when applied in a wide dispersive manner; or used by a commercial contractor.

TRACKING: Is not required

RECORD KEEPING: Records of use as described in NZS 8409 Management of Agrichemicals must be kept if 3L or more is applied within 24 hours.

Conditions for Safe Storage

Keep out of reach of children.

Store in original container tightly closed and in a locked, dry, cool area away from human or animal foodstuffs and animal remedies. Storage must be in accordance with NZS 8409 Management of Agrichemicals.

Stores containing 100L of Savage 350 Insecticide require secondary containment and are subject to signage, and more than 100L require emergency response plans.

Other Information

Always read the label and any attached leaflet before use.

Aggregate Storage Volume Thresholds:

When stored with substances of the same hazard classification the aggregate quantity must be considered.

For full details refer to the current NZS8409 Management of Agrichemicals and the HSNO Regulations.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

National Exposure Standards

No exposure limits (WES, TEL or EEL's) have been specifically assigned for this product.

Engineering Controls

Handle in well ventilated areas, generally natural ventilation is adequate.

Personal Protective Equipment

When opening the container, preparing spray and using the prepared spray wear eye and respiratory protection, chemical resistant gloves, and chemical resistant coveralls closed to the neck and wrist, and boots.

Hygiene Measures

Do not eat, drink or smoke while using.

Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash protective clothing daily after work.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form	Liquid
Appearance	White
Specific Gravity	1.16 g/cm ³ at 20°C
pH Value	6.0-7.0
Vapour Pressure	9 x 10 ⁻⁷ mPa @ 25°C (imidacloprid)
Viscosity	800 - 2000cps @ 20°C
Octanol/Water Partition Coefficient	Kow LogP is 0.57 @ 21°C for imidacloprid
Flammability	Not flammable
Other Information	(SC) Suspension Concentrate

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability	When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture.
Hazardous Reactions	Keep away from strong oxidising agents.
Hazardous Polymerization	Hazardous polymerisation will not occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

Toxicology Information	No specific toxicological data is available for this product. Data below is for constituents.
Inhalation	Inhalation of sprays or mists may result in effects described under ingestion.
Ingestion	Swallowing large quantities may cause vomiting, diarrhoea, abdominal pain, lethargy, depressed muscular tone, muscular cramps, respiratory disturbances and trembling.
Skin	Mild skin irritant
Eye	May irritate the eyes.
Chronic Effects	Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects.
Acute Toxicity - Oral	LD50 (male mouse) 130 mg/kg for imidacloprid
Acute Toxicity – Dermal	LD50 (24h) (rat) >5,000 mg/kg for imidacloprid
Subchronic/Chronic Toxicity	Target organ - liver (hepatotoxicity/alimentary system) NOAEL 5.7mg/kg bw/day for rats

SECTION 12 – ECOLOGICAL INFORMATION

Persistence / Degradability	Yes. The half-life in water is >31 days at pH5, 7 and 9
Basis for Assessment	Ecotoxicological data have not been determined specifically for this product.

Data below is for the active ingredient unless otherwise stated.

Acute Toxicity – Fish	LC50 (96hr) for rainbow trout is 83 mg/l for imidacloprid NOEL for rainbow trout = 42mg/l
Acute Toxicity – Daphnia	LC50 (48hr) for daphnia magna is 85 mg/l for imidacloprid.
Acute Toxicity – Algae	ErC50 (96hr) mysid shrimp is 0.038mg/L for imidacloprid
Acute Toxicity – Other Organisms	LC50 (96h) mysid shrimp 0.038 mg/L for imidacloprid LD50 for Japanese quail is 31 mg/kg for imidacloprid LC50 (14d) earthworm = 2.3mg/kg dry soil for imidacloprid LC50 (48h) honey bee = 0.0039Ng/bee for imidacloprid

SECTION 13 – DISPOSAL CONSIDERATIONS

Product Disposal	Dispose of product only by using according to the label, or at an approved landfill.
Container Disposal	Triple rinse empty container and add rinsate to spray tank. Recycle empty container. Otherwise crush and bury in a suitable landfill.

SECTION 14 – TRANSPORT INFORMATION

UN Number (Sea Transport): 3082

IMO Proper Shipping: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains IMIDACLOPRID), Class 9, Packing Group III.

SECTION 15 – REGULATORY INFORMATION

HSNO Approval Number: HSR002691

HSNO Controls (inc. Tracking and Record Keeping):

See <http://www.epa.govt.nz> for controls.

ACVM Registration: P8927

ACVM Controls:

See www.footsafety.govt.nz for registration conditions.

SECTION 16 – OTHER INFORMATION

This SDS contains only safety-related information. For other data see product literature.

Contact Point:

Police, Ambulance and Fire Service:	Dial	111
National Poisons Information Centre:	Dial	0800 POISON (0800 764 766)
Hazardous Substances Emergency:	Dial	0800 Chemcall (0800 243 622)